



ADVANCED MATERIALS AND NANOTECHNOLOGY

SEMINAR SERIES 2019

CEITEC - BRNO UNIVERSITY OF TECHNOLOGY
LARGE MEETING ROOM

Prof. Dr. Mato Knez

NANO GUNE, San Sebastian, Spain

Atomic Layer Processing: A toolbox for fabricating novel functional hybrid materials

November, 12

Tuesday, 10:00 Seminar
room **S2.02** CEITEC BUT
Purkynova 123

Invited by:

Dr. Ing. Jan Macák

Atomic layer processing is an umbrella term for several processing techniques that base on atomic layer deposition (ALD). Those include thin film coatings with inorganic or organic materials, atomic layer etching and polymer infiltration strategies.

The ALD process can be seen from various perspectives. On the one hand, it allows controlled deposition of thin films on a variety of substrates and in this way enables a modification of a given functionality of a surface or even introduction of a new functionality. On the other hand, it may be seen as a chemical reactor that allows precise dosing of a chemical, allowing for chemical interaction and modification of the substrate.